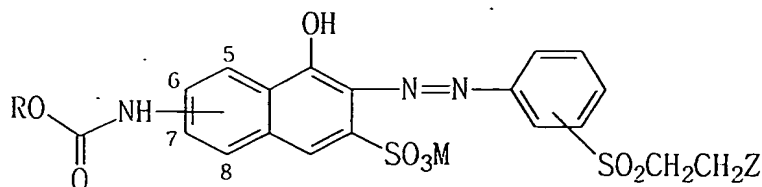


CLAIMS

What is claimed is:

1. A reactive orange dye containing vinyl sulfone expressed in the following
5 formula 1:

Formula 1



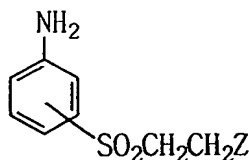
- 10 wherein, M is alkaline metal atom; Z is $-O-SO_3M$ or $OC(O)CH_3$; R is alkyl group having 1-4 of carbon atom; and a position of C_6 or C_7 is substituted with carbamate group.

2. A process for preparing a reactive orange dye containing vinyl sulfone
15 expressed in the following formula 1, which comprises the steps of:

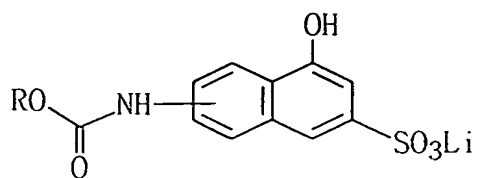
- (a) diazotizing aminophenyl- β -ethylsulfone compound of formula 2;
(b) condensing in such a manner that alkyl chloroformate is slowly added to neutralized solution of 6(7)-amino-4-hydroxy-2-naphthalenesulfonic acid to prepare 6(7)-alkoxycarbonylamino-4-hydroxy-2-naphthalenesulfonic acid to prepare 6(7)-alkoxycarbonylamino-4-hydroxy-2-naphthalenesulfonic
20 acid expressed in the following formula (3) at 0-25°C with maintaining pH in the range of 3-6 by means of LiOH or Li_2CO_3 ; and
(c) coupling the reacting mixtures obtained in the above steps of (a) and (b) at 0-5°C with adding a base so as to adjust pH lower than 6.5.

Formula 2

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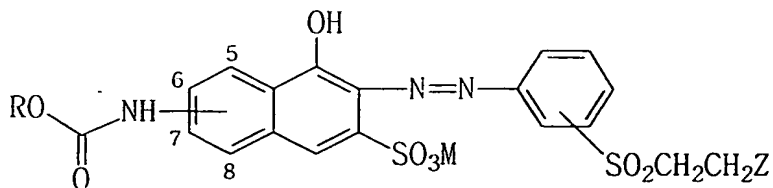


Formula 3



5

Formula 1



10 wherein, M is alkaline metal atom; Z is -O-SO₃M or OC(O)CH₃; R is alkyl group having 1-4 of carbon atom; and a position of C₆ or C₇ is substituted with carbamate group.